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APPLICATION NO.	FILING DATE	· FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,530	04/13/2005	Francis Paul Buxton	4-32437A	8876
1095 NOVARTIS	7590 10/02/200	7	EXAMINER	
CORPORATE INTELLECTUAL PROPERTY			CARTER, KENDRA D	
•	ONE HEALTH PLAZA 104/3 EAST HANOVER, NJ 07936-1080			PAPER NUMBER
	•		1617	
				·
			MAIL DATE	DELIVERY MODE
			10/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/510,530	BUXTON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kendra D. Carter	1617			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS,					
WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 25 Ju	<u>lly 2007</u> .				
a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-24 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-24</u> are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine	г.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
·					
Attachment(s)	_				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Po				

DETAILED ACTION

Election/Restrictions

Upon further reconsideration a second election restriction is recited below because the distinct inventions between the enzyme activity and gene expression were not restricted previously.

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- 1. Group I, claim(s) 1-4, 6, 7, 9 and 23 (in part; protein levels), are drawn to a method to treat or ameliorate chronic pain comprising administering to a subject in need thereof an effective amount of a MMP7 modulator that inhibits the enzyme activity of MMP7 in said subject.
- Group II, claim(s) 5-8 and 23 (in part; mRNA), are drawn to a method to II. treat or ameliorate chronic pain comprising administering to a subject in need thereof an effective amount of a MMP7 modulator that inhibits MMP7 gene expression.

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III. Group III, claim(s) 10 and 12, are drawn to a method to identify modulators useful to treat or ameliorate chronic pain comprising assaying for the ability of a candidate modulator to inhibit MMP7 enzyme activity.

- IV. Group IV, claim(s) 11 and 12, are drawn to a method to identify modulators useful to treat or ameliorate chronic pain comprising assaying for the ability of a candidate modulator to inhibit MMP7 gene expression.
- V. Group V, claim(s) 13, 14, 16, 17 and 19, are drawn to a pharmaceutical composition comprising a MMP7 modulator that inhibits the enzyme activity of MMP7.
- VI. Group VI, claim(s) 13, 15, 16, 17 and 18, are drawn to a pharmaceutical composition comprising a MMP7 modulator that inhibits MMP7 gene expression.
- VII. Group VII, claim(s) 20-21, are drawn to use of a hydroxamic acid derivative for the manufacture of a medicament for the treatment of chronic pain.
- VIII. Group VIII, claim(s) 24, is drawn to a method to diagnose subjects suffering from chronic pain comprising assaying protein levels or mRNA levels of this protein in a biological sample from said subject wherein subjects with increased levels compared to controls would be suitable candidates for MMP7 modulator treatment.

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IX. Group IX, claim(s) 22, is drawn to a diagnostic kit for detecting mRNA levels and/or protein levels of MMP7 in a biological sample.

The inventions listed as Groups I - IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features.

An international application should relate to only one invention or, if there is more than one invention, the inclusion of those inventions in one international application is only permitted if all inventions are so linked as to form a single general inventive concept (PCT Rule 13.1). With respect to a group of inventions claimed in an international application, unity of invention exists only when there is a technical relationship among the claimed inventions involving one or more of the same or corresponding special technical features.

The expression "special technical features" is defined in PCT Rule 13.2 as meaning those technical features that define a contribution which each of the inventions, considered as a whole, makes over the prior art. The determination is made on the contents of the claims as interpreted in light of the description and drawings (if any). Whether or not any particular technical feature makes a "contribution" over the prior art, and therefore constitutes a "special technical feature," should be considered with respect to novelty and inventive step.

The special technical feature in Groups I, II, III, IV, V and VI is the MMP7

modulator therein which is not present in Groups VII, VIII and IX. The special technical

feature of Group VII is a hydroxamic acid derivative, and the special technical feature of

Group VIII and IX is the detection or assay of mRNA and/or protein levels of MMP7,

which is not present in Groups I, II, III, IV, V or VI.

As a result, no special technical features exist among the different groups

because the inventions in Groups I to IX fail to make a contribution over the prior art

with respect to novelty and inventive step. In conclusion, there is a lack of unity of

inventions, and therefore restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct

species: a MMP7 modulator and a hydroxamic acid derivative. The species are

independent or distinct because the modulator can be virtually any chemical structure

and therefore be classified in numerous classes and subclasses.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for

prosecution on the merits to which the claims shall be restricted if no generic claim is

finally held to be allowable. Currently, claims 1-6, 8-9, 13-16, 18-20, and 22-23 are

generic.

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The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the

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the prior art, the evidence or admission may be used in a rejection under 35

U.S.C. 103(a) of the other invention.

Applicant is advised that in order for the reply to this requirement to be complete

it must include an election of the invention to be examined even though the requirement

be traversed (37 CFR 1.141).

No telephone call was made due to the complexity of the restriction.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kendra D. Carter whose telephone number is (571) 272-

9034. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sreeni Padmanabhan can be reached on (571) 272-0629. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KDC

SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER